

CLAIMS

Sub B1 ✓
1. A plant transformation vector based on the function of *Agrobacterium*, wherein the left border sequence has been modified such as to reduce the possibility of the integration of any non-T-DNA segment into plant chromosomes.

2. A plant transformation vector comprising a right border sequence and a left border sequence that can be recognized by the *vir* proteins of *Agrobacterium*, a T-DNA region located between these border sequences and into which a gene to be introduced into the plant can be inserted, and a replication origin that enables replication of said vector in bacteria, wherein said left border sequence has been modified such as to reduce the possibility of integration of any non-T-DNA segment into plant chromosomes.

3. The plant transformation vector according to claim 1 or 2, wherein the modification of the left border sequence comprises more than one left border sequence.

Sub A2 ✓
4. The plant transformation vector according to any one of claims 1 to 3, wherein the T-DNA sequence contains a marker gene that permits the selection of the transformant.

5. The plant transformation vector according to any one of claims 1 to 4, wherein the replication origin permits replication of the vector in bacteria including bacteria for vector amplification and *Agrobacterium*.

6. A method of transforming plants comprising using

Sub
2
A cond

add β^3

[illegible]